

APPROVED BY	O.G. FIG.	
	CLASS	SUBCLASS
DRAFTSMAN		

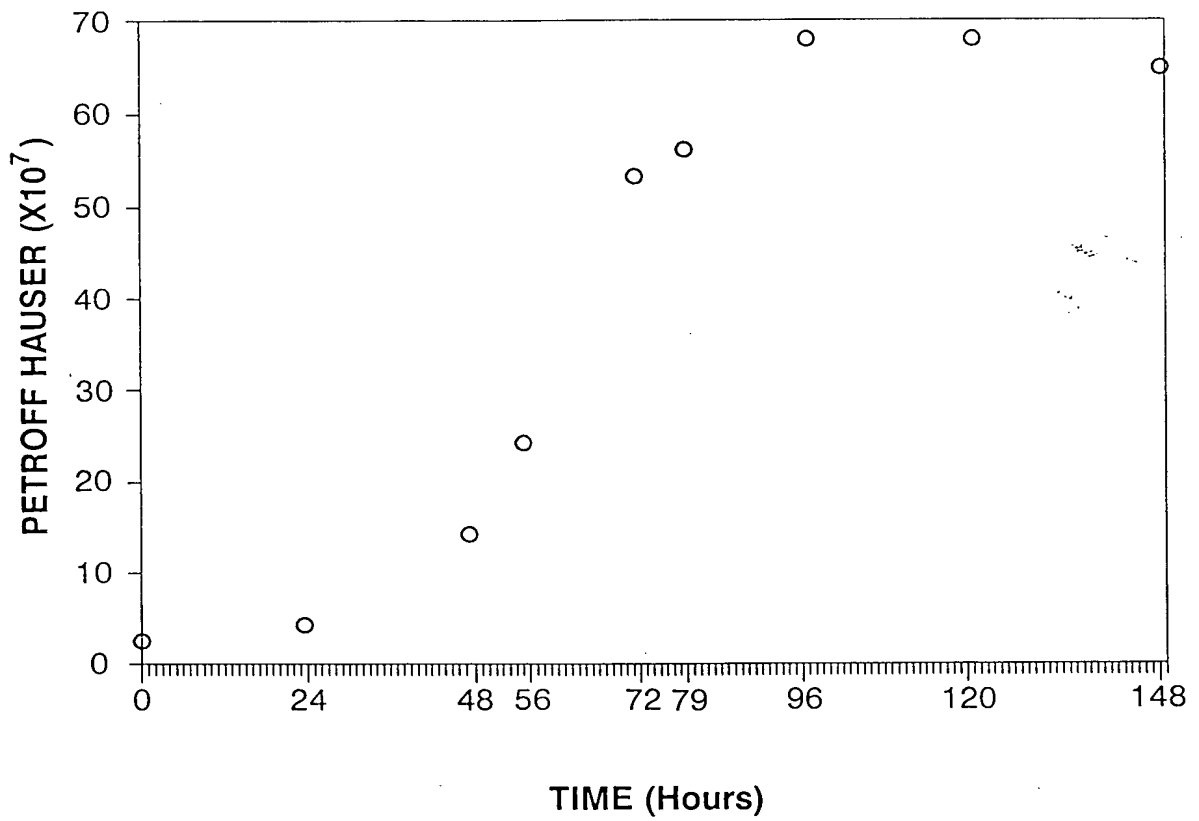


FIGURE 1

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BY	CLASS	SUBCLASS
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REF ID: A33260

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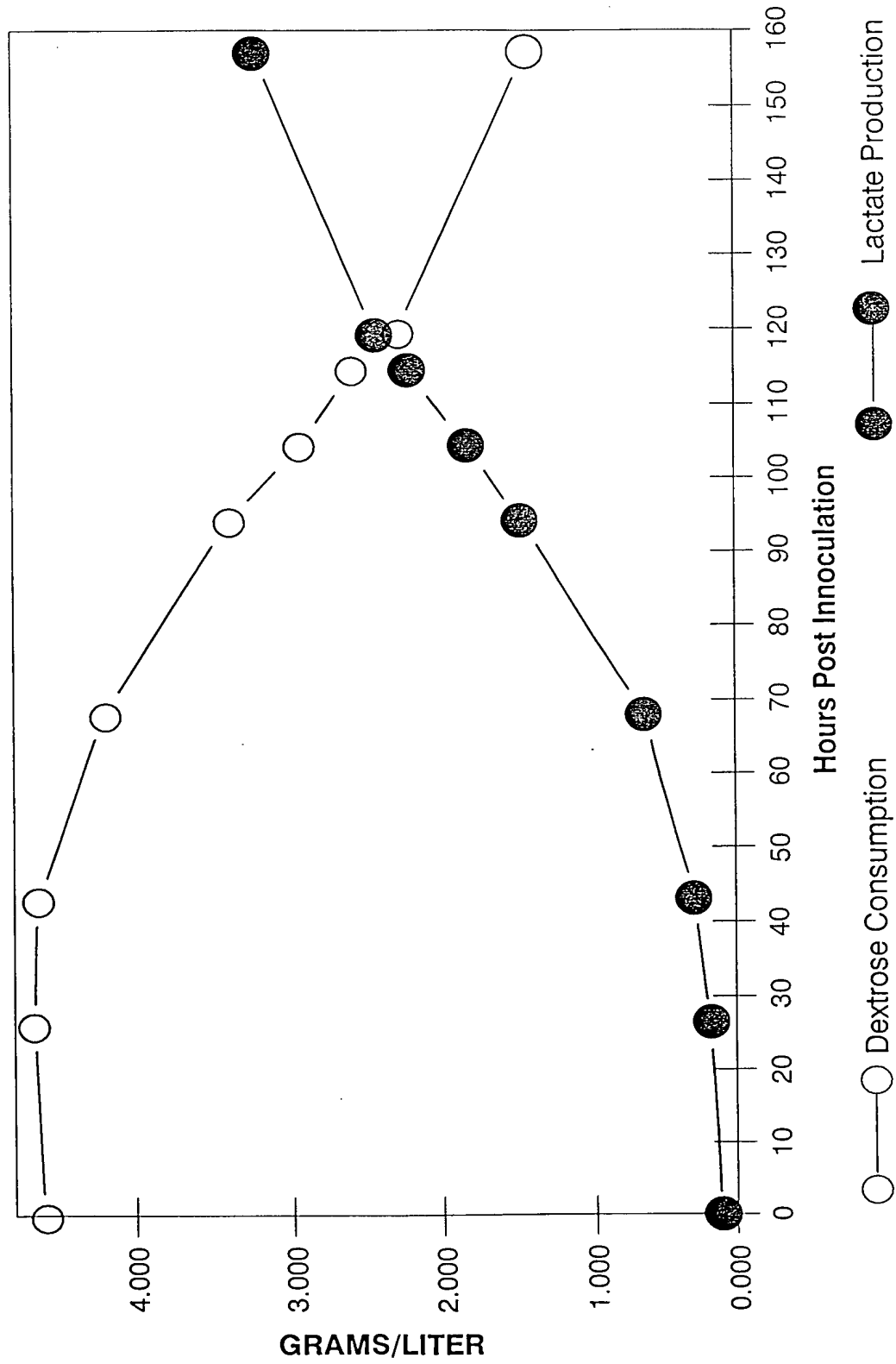


FIGURE 2

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

FIGURE 3

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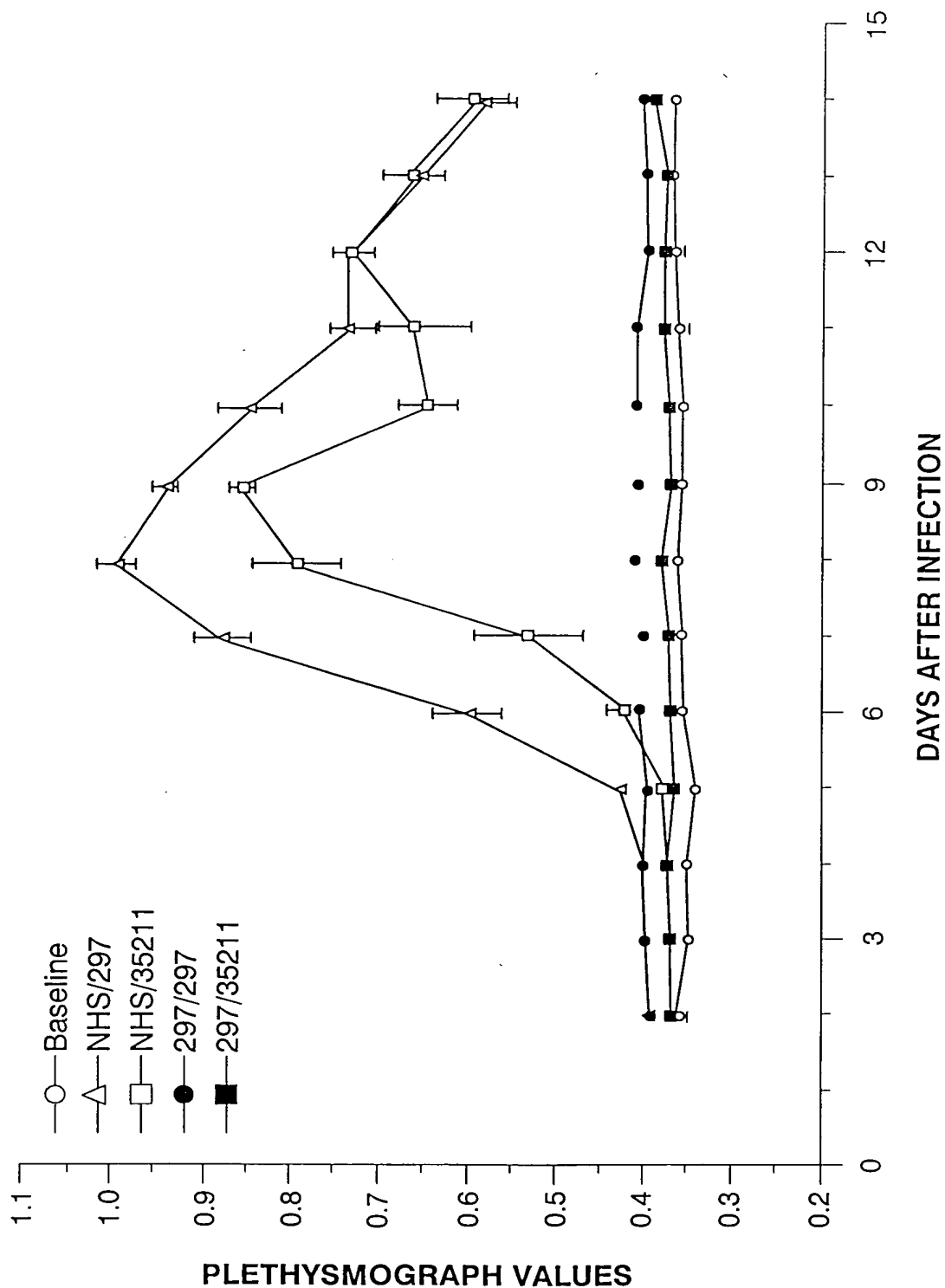
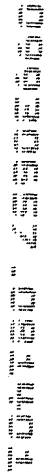
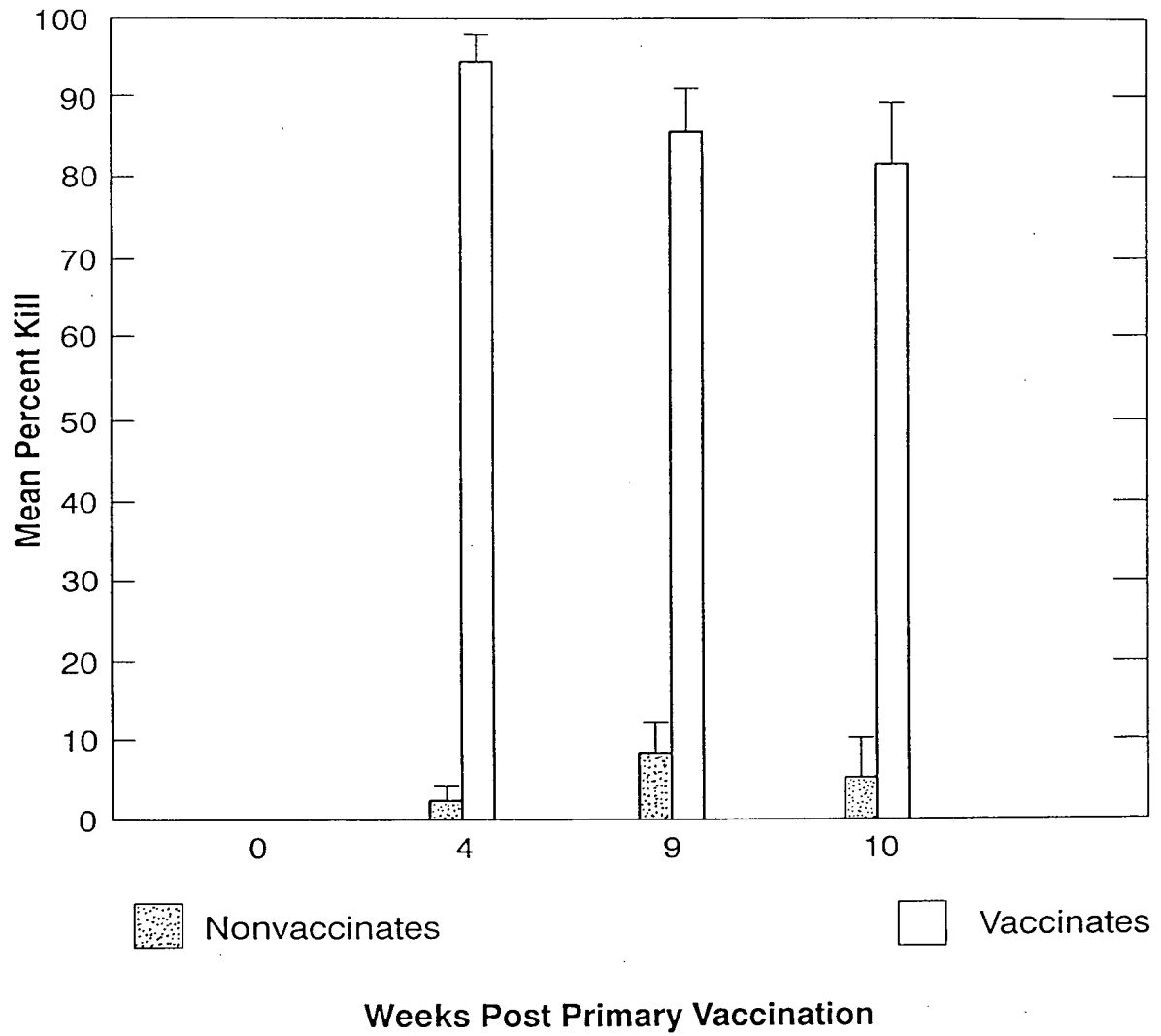
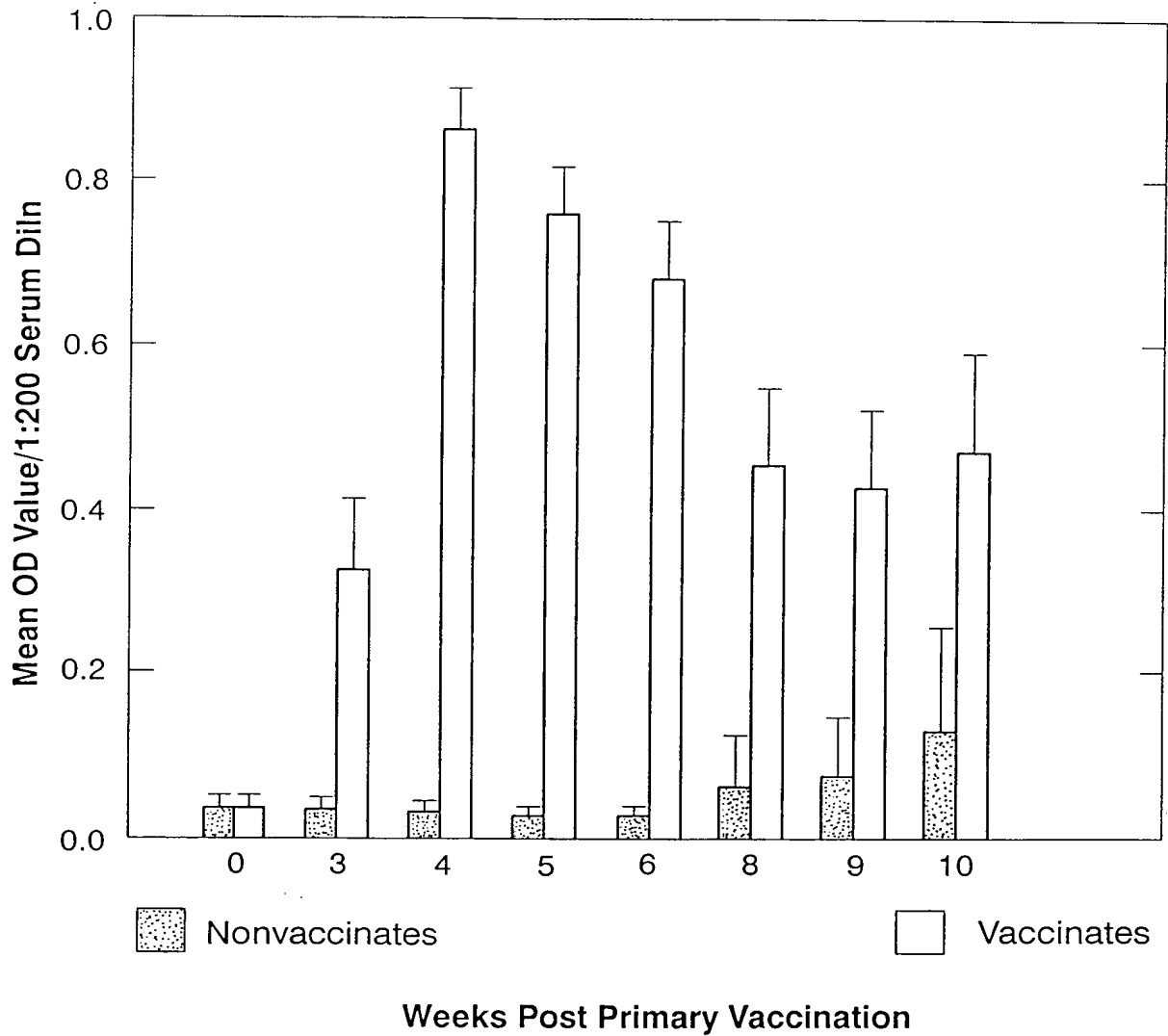


FIGURE 3



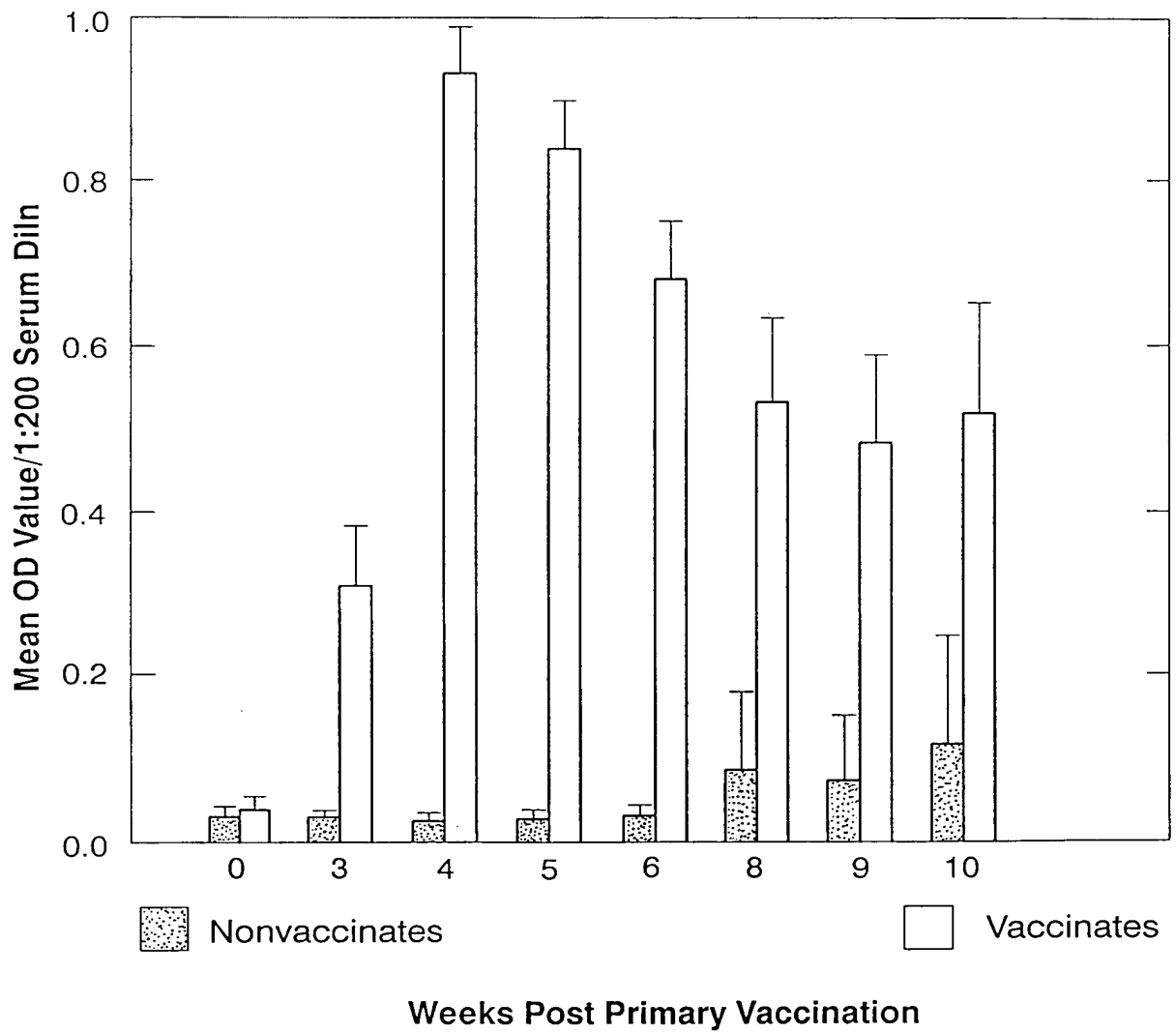
## FIGURE 4

**FIGURE 5**

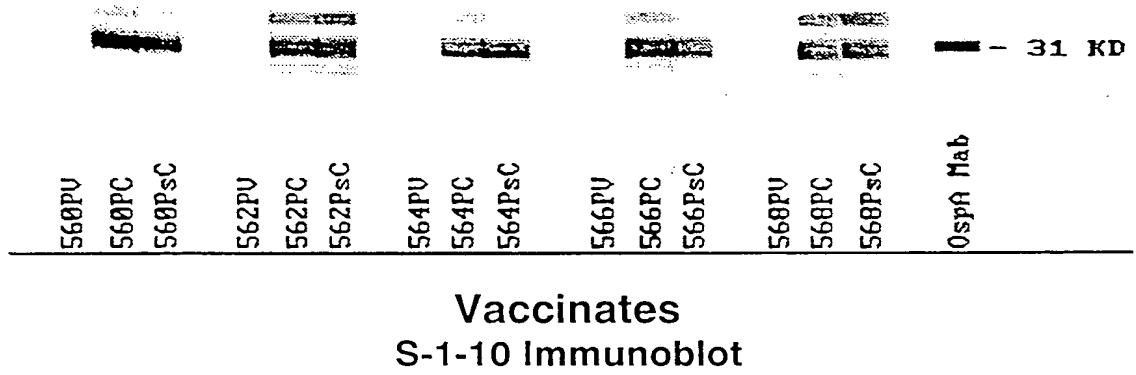
**FIGURE 6**

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BY	CLASS
DRAFTSMAN	SUBCLASS

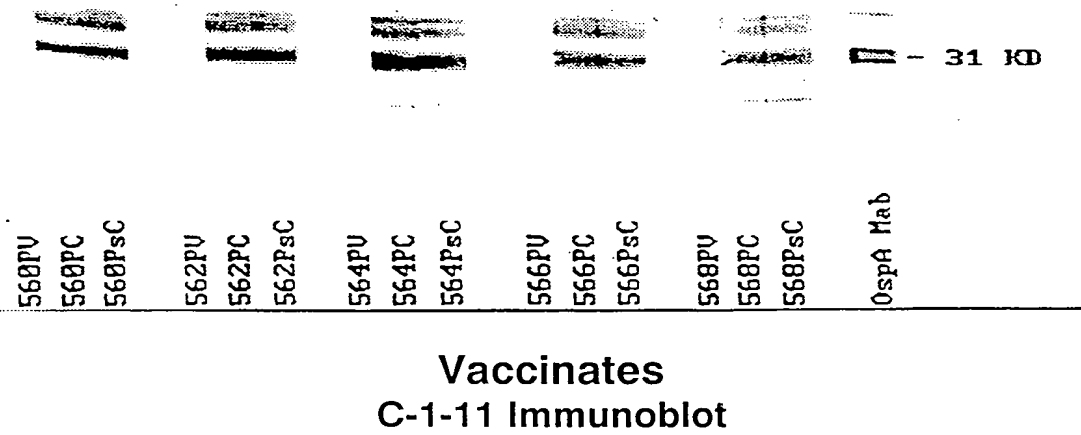
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**FIGURE 7**

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	CLASS	SUBCLASS



**FIGURE 8A**



**FIGURE 8B**

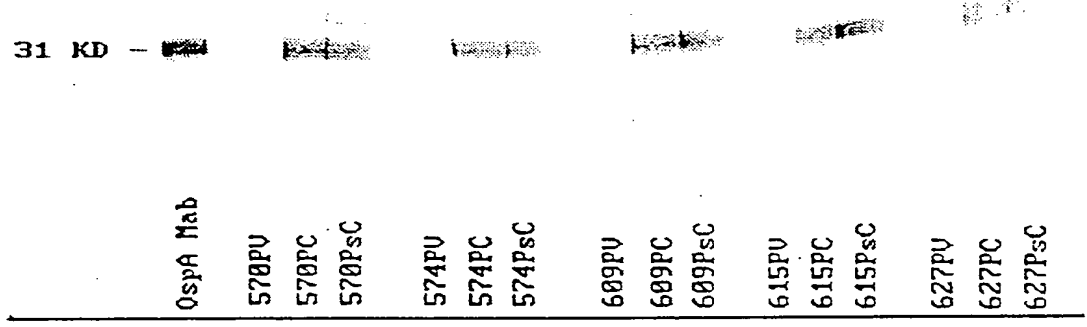
FIGURE 8A



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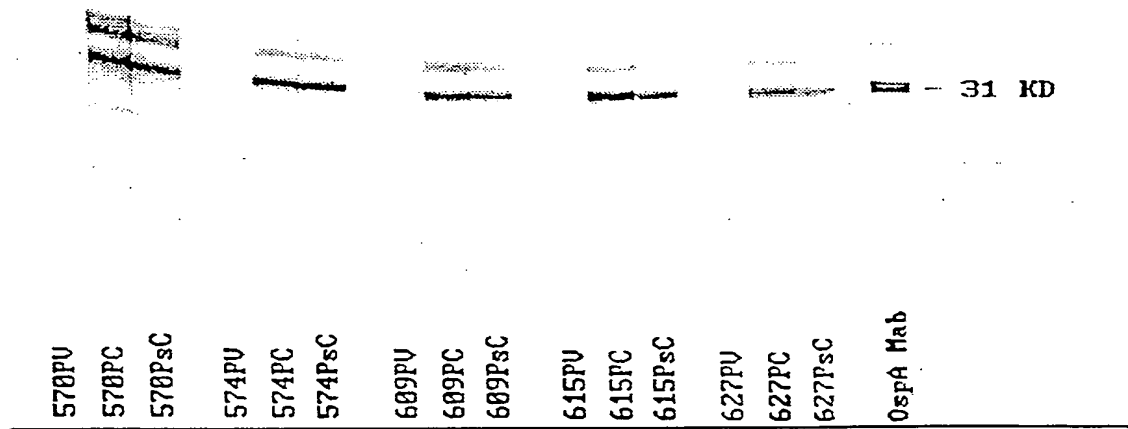
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	CLASS	SUBCLASS

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Vaccinates  
S-1-10 Immunoblot

FIGURE 9A



Vaccinates  
C-1-11 Immunoblot

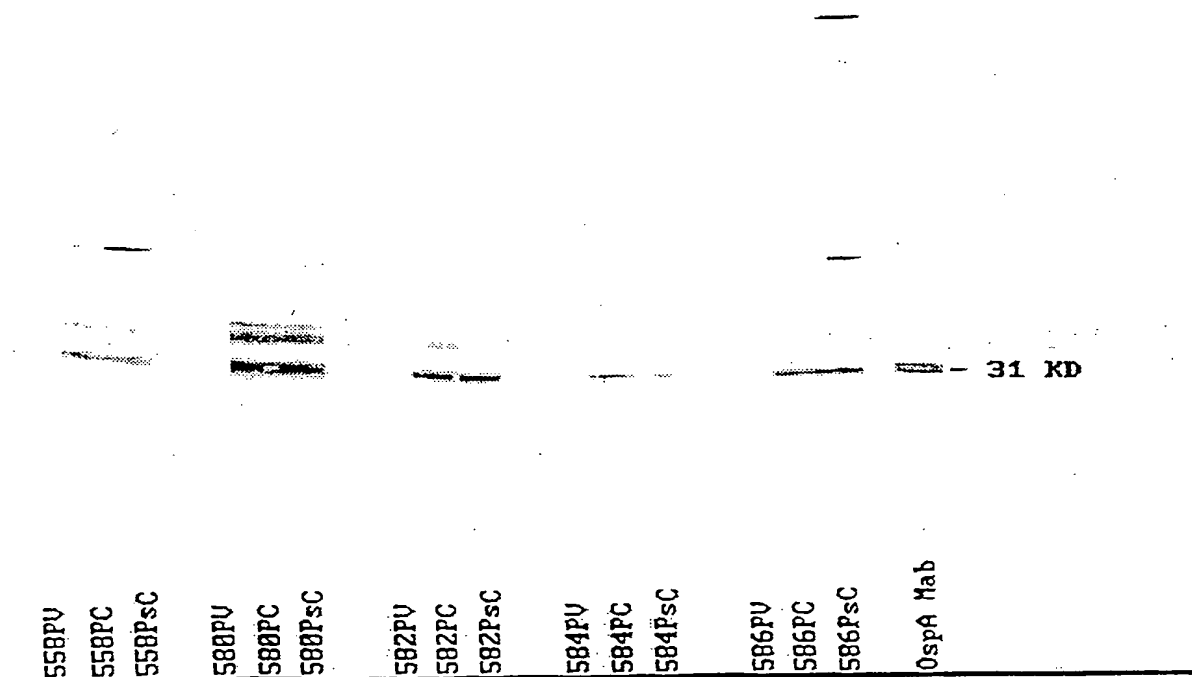
FIGURE 9B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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558PV  
558PC  
558PsC  
580PV  
580PC  
580PsC  
582PV  
582PC  
582PsC  
584PV  
584PC  
584PsC  
586PV  
586PC  
586PsC  
OspA Mab

Vaccinates  
S-1-10 Immunoblot  
**FIGURE 10A**

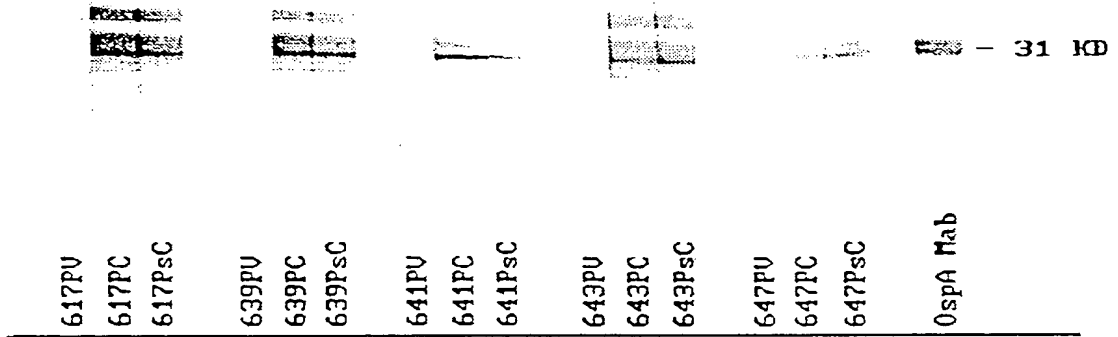


Vaccinates  
C-1-11 Immunoblot  
**FIGURE 10B**

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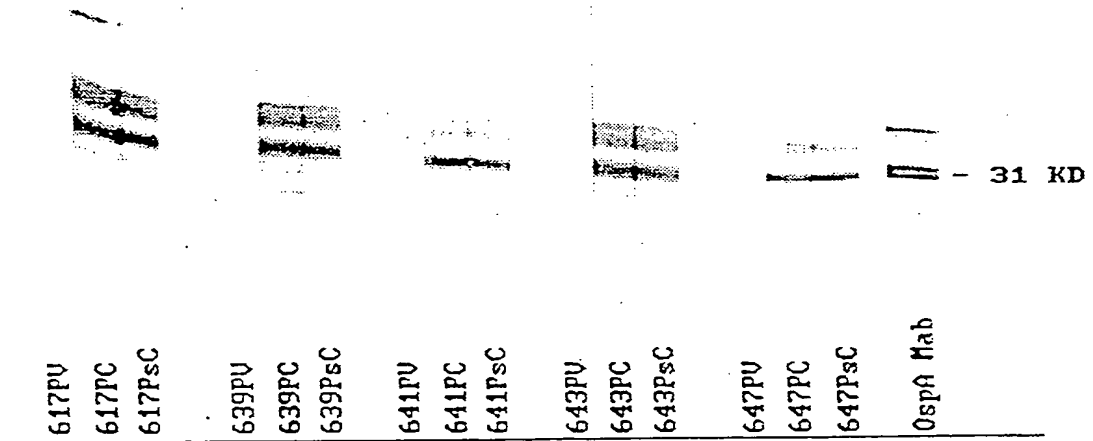
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FIGURE 11A



Vaccinates  
S-1-10 Immunoblot

FIGURE 11A



Vaccinates  
C-1-11 Immunoblot

FIGURE 11B

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	CLASS	SUBCLASS

-186KD

-88KD

-49.5KD

-32.5KD

-31KD Ospa

-27.5KD

667 673 671 669 665 663 661 655 651 612 610 608 598 556 554 Mab

Nonvaccinates Prechallenge  
S-1-10 Immunoblot

FIGURE 12A

-186KD

-88KD

-49.5KD

-32.5KD

-31KD Ospa

-27.5KD

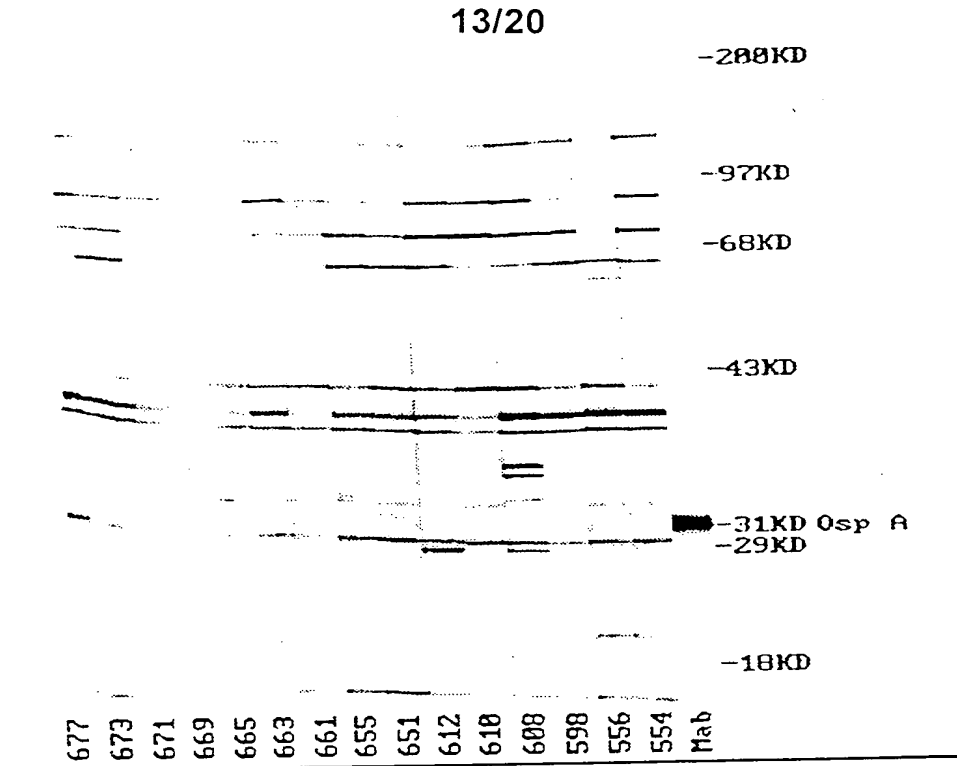
677 673 671 669 665 663 661 655 651 612 610 608 598 556 554 Mab

Nonvaccinates Prechallenge  
C-1-11 Immunoblot

FIGURE 12B

APPROVED BY	O.G. FIG.	
	CLASS	SUBCLASS
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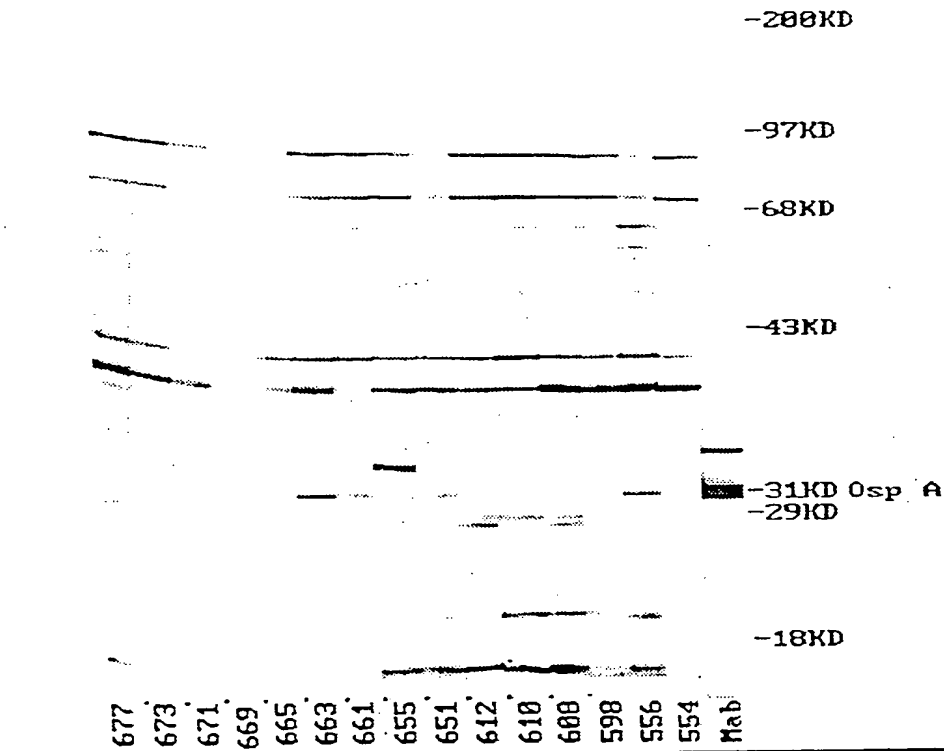
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Nonvaccinates Postchallenge

S-1-10 Immunoblot

**FIGURE 13A**



Nonvaccinates Postchallenge

C-1-11 Immunoblot

**FIGURE 13B**

APPROVED	O.G. FIG.	
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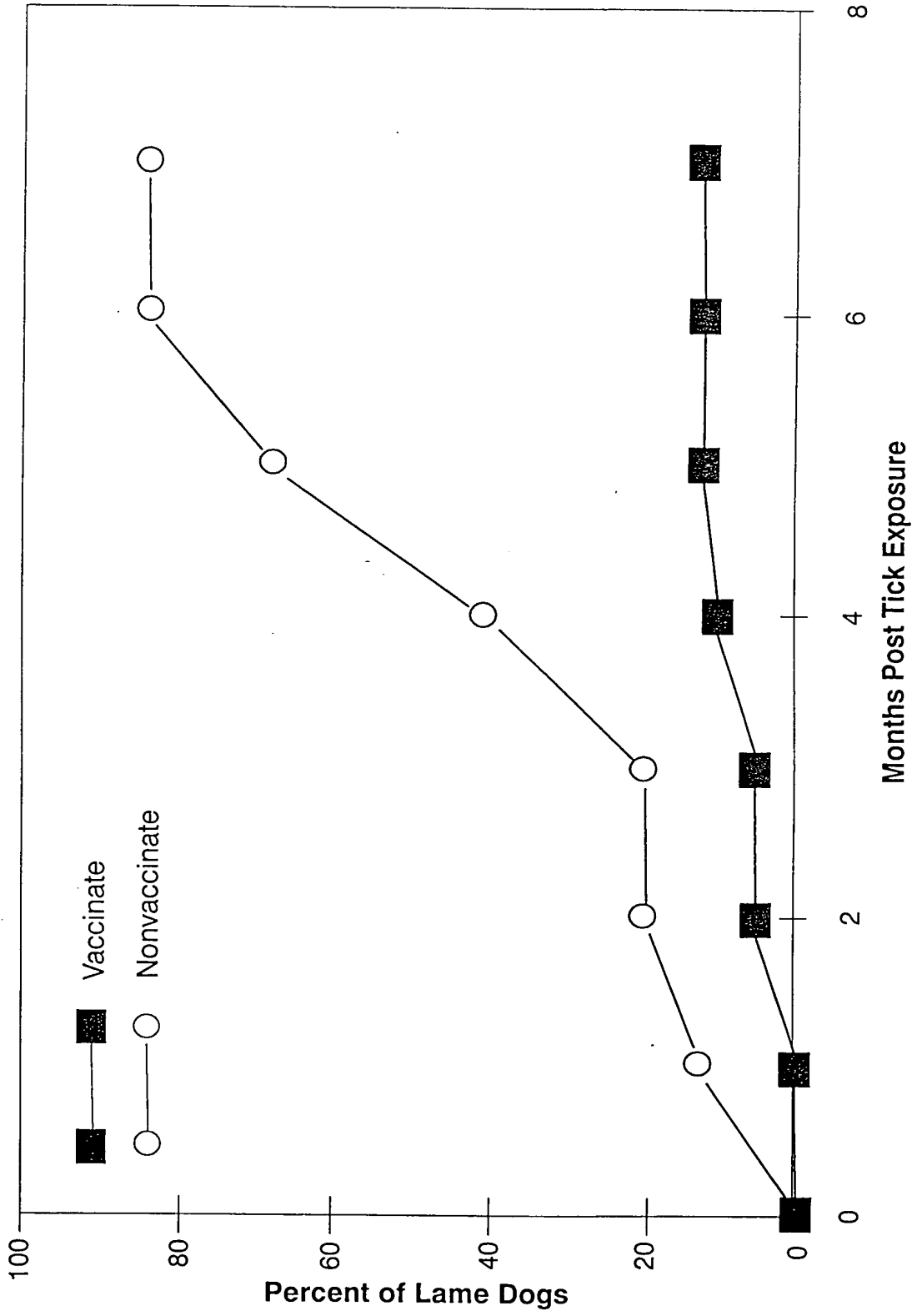
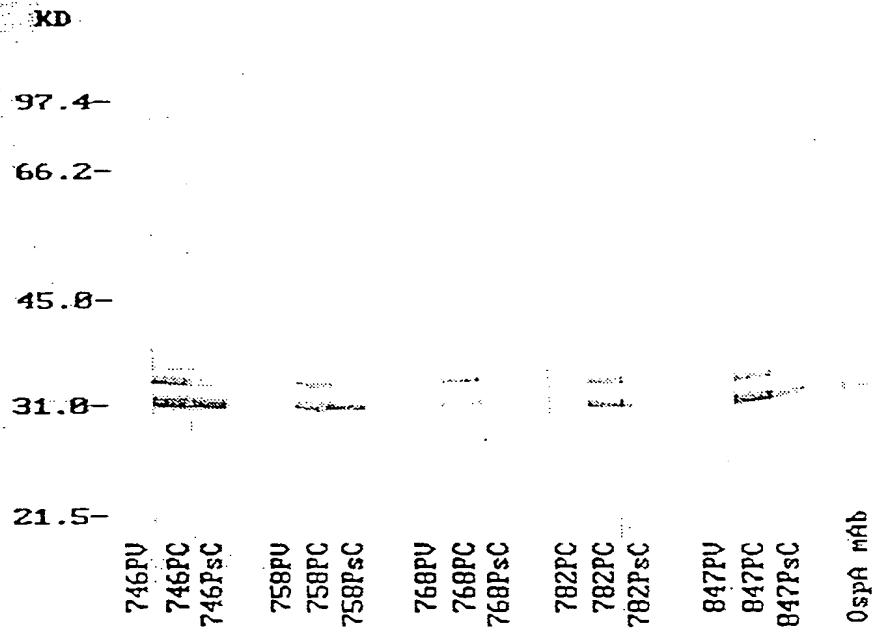


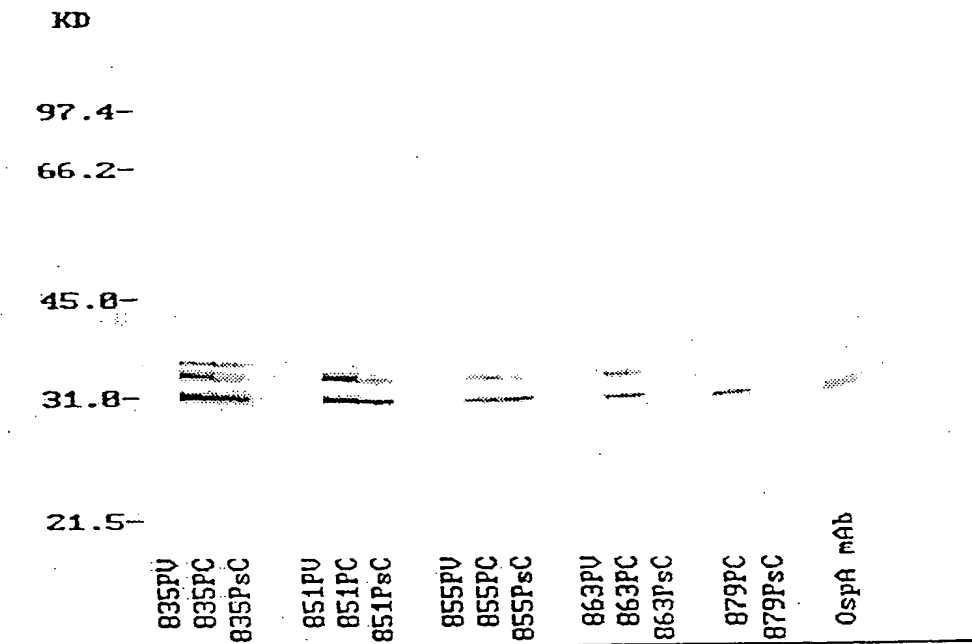
FIGURE 14

APPROVED	O.G. FIG.	
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Vaccinates –  $5 \times 10^8$  Cells/Dose  
C-1-11 Immunoblot

**FIGURE 15A**



Vaccinates –  $5 \times 10^8$  Cells/Dose  
C-1-11 Immunoblot

**FIGURE 15B**

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KD

97.4-

66.2-

45.8-

31.8-

21.5-

746PV

746PC

746PsC

758PV

758PC

758PsC

768PV

768PC

768PsC

782PV

782PC

782PsC

847PV

847PC

847PsC

0spA mAb

Vaccinates -  $5 \times 10^8$  Cells/Dose  
S-1-10 Immunoblot

## FIGURE 16A

KD

97.4-

66.2-

45.8-

31.8-

21.5-

835PV

835PC

835PsC

851PV

851PC

851PsC

855PV

855PC

855PsC

863PV

863PC

863PsC

879PC

879PsC

0spA mAb

Vaccinates -  $5 \times 10^8$  Cells/Dose  
S-1-10 Immunoblot

## FIGURE 16B

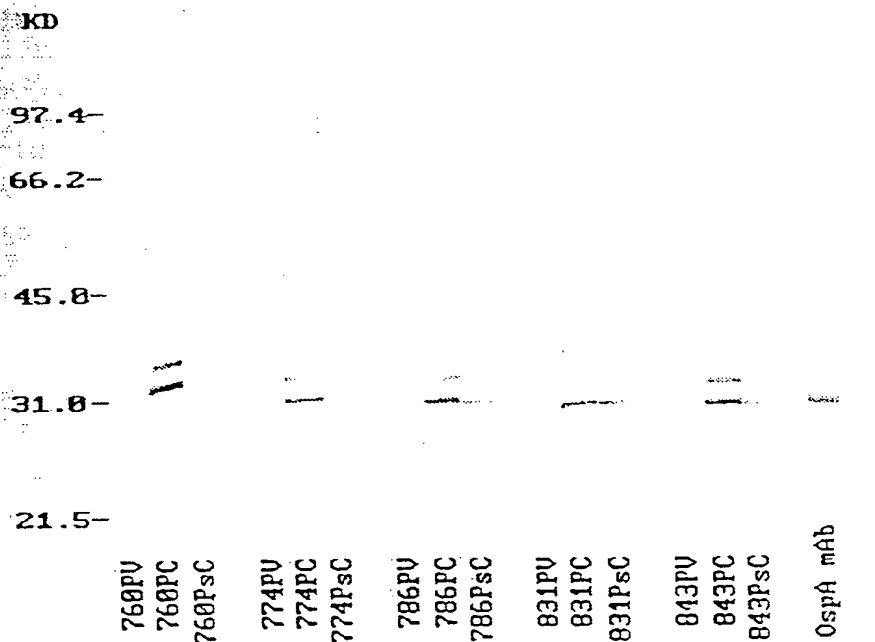
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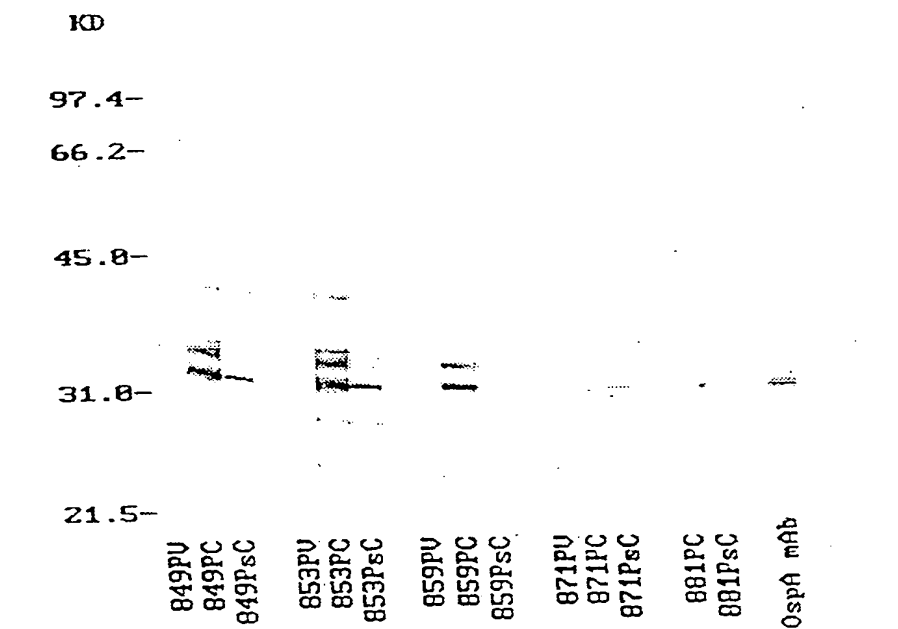
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	CLASS	SUBCLASS



Vaccinates -  $5 \times 10^7$  Cells/Dose  
C-1-11 Immunoblot

FIGURE 17A

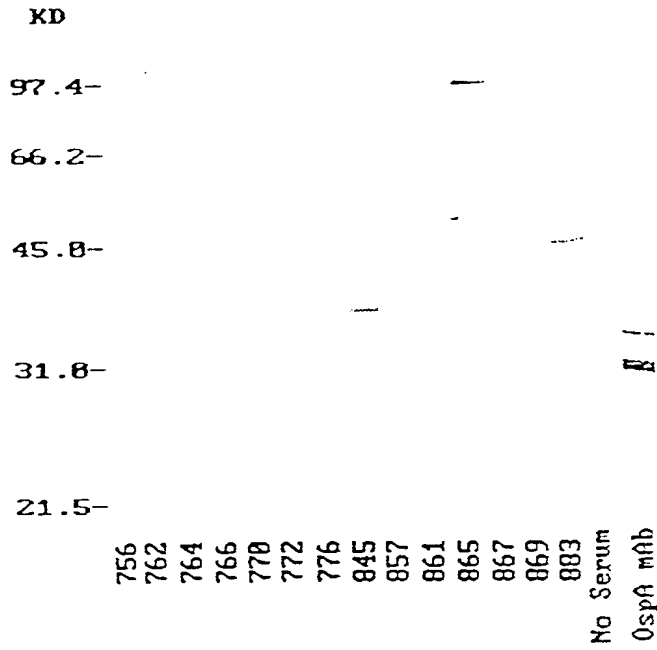


Vaccinates -  $5 \times 10^7$  Cells/Dose  
C-1-11 Immunoblot

FIGURE 17B

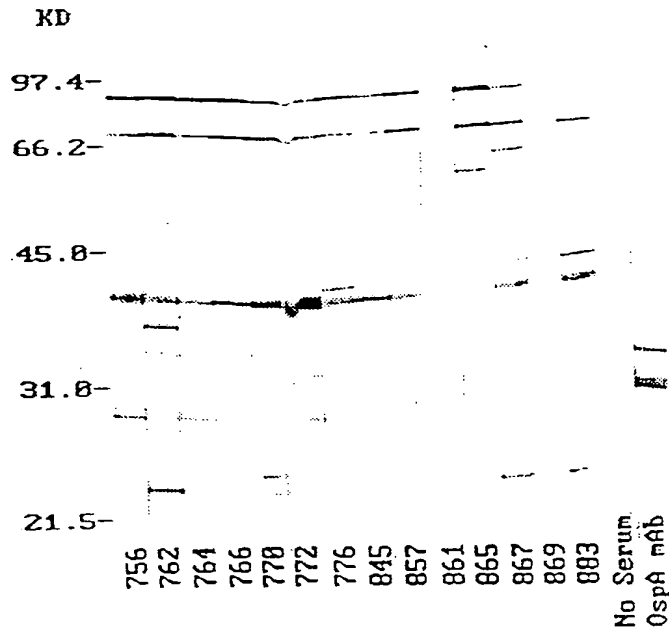
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APPROVED	O.G. FIG.	CLASS	SUBCLASS
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DATE			



Nonvaccinates Prechallenge  
C-1-11 Immunoblot

## FIGURE 18A

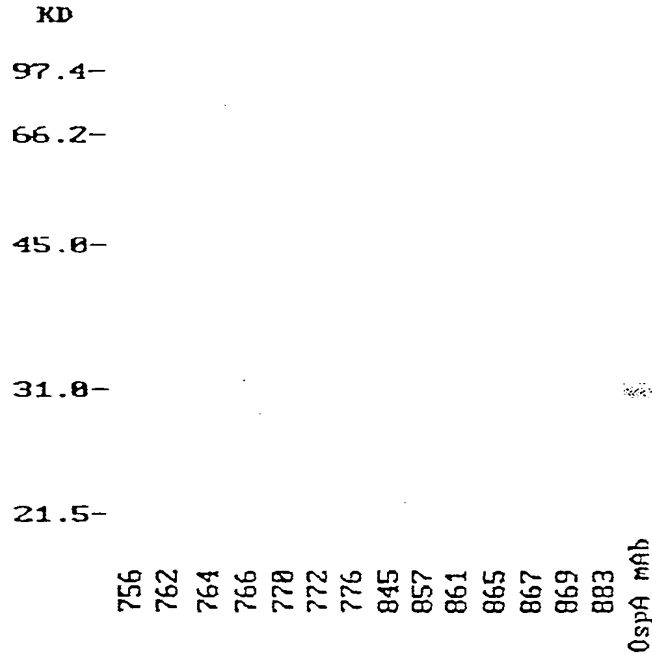


Nonvaccinates Post Tick Challenge  
C-1-11 Immunoblot

## FIGURE 18B

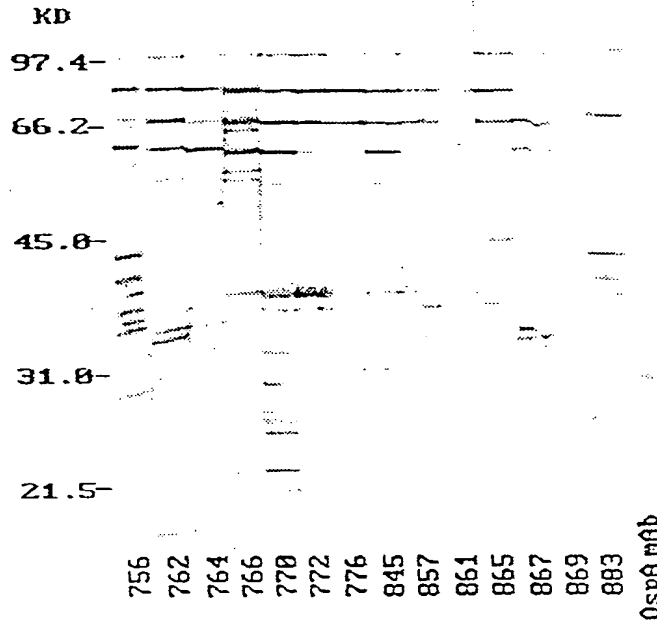
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	CLASS	SUBCLASS



Nonvaccinates Prechallenge  
S-1-10 Immunoblot

## FIGURE 19A



Nonvaccinates Post Tick Challenge  
S-1-10 Immunoblot

## FIGURE 19B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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UNITED STATES DEPARTMENT OF AGRICULTURE  
BUREAU OF PLANT INDUSTRY

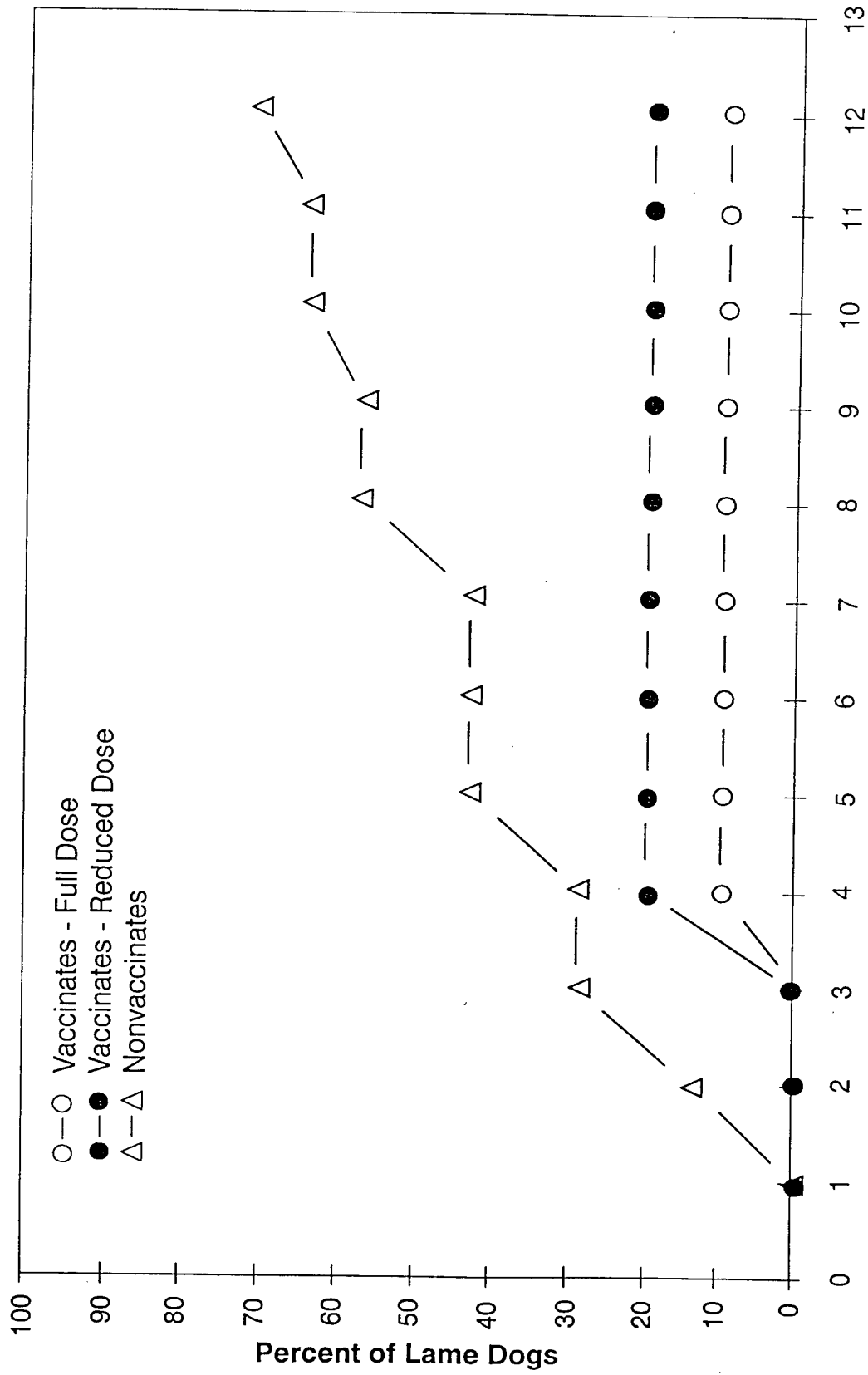


FIGURE 20